CLAIMS.

We claim:

Claim 1 (Currently amended) A method of object recognition on a bit-mapped image, comprising

    parsing the image into regions,

    identifying text and non-text regions,

    recognition of objects by any known method,

    preliminarily assigning at least one graphical structure comprising more [then] than one primary graphical unit to be used as a standard element that may compose as a part at least one recognized object,

    preliminarily describing at least one recognized object as a set of said standard elements of at least one type along with spatially parametrical correlations thereof,

    performing the following steps

        search and identification of at least one standard element on the said bit-mapped image,

        selection of at least one standard element image for testing on belonging to the recognized object,

        setting up and testing a hypothesis about the recognized object on the basis of the image formed by all aggregate of said selected standard element images as a whole taking into account spatially parametrical correlations thereof.

Claim 2 (Currently amended) A method of character recognition on a bit mapped image, comprising

    parsing the image into regions,

    identifying text and non-text regions,

    identifying regions containing characters,

    recognition of characters by any known method,

    preliminarily assigning at least one type of graphical structure comprising more [then] than one primary graphical

unit to be used as a standard element that may compose as a part at least one recognized character,
preliminarily describing at least one recognized character as a set of said standard elements of at least one type along with spatially parametrical correlations thereof,
performing the following steps

search and identification of at least one standard element on the said bit-mapped image,

selection of all standard elements in the region presumably containing image of character for testing on belonging to a recognized character,

setting up and testing a hypothesis about the recognized character using the image formed by all aggregate of said selected standard elements as a whole taking into account spatially parametrical correlations thereof.

Claim 3 (Original) The method as recited in claims 1 or 2, wherein at least one standard element composing the recognized object is described as an alternative.

Claim 4 (Original) The method as recited in claims 1 or 2, wherein the set of standard elements composing the recognized object is described as an alternative.

Claim 5 (Canceled).

Claim 6 (Original) The method as recited in claims 1 or 2, wherein the image at least partly contain standard elements connected by relations of mathematical logic.

Claim 7 (Original) The method as recited in claims 1 or 2, wherein the step of recognized image identification as a standard elements aggregate additionally comprise

- analysis of elements connected by relation of "AND" type,

- analysis of elements connected by relation of "OR" type,

- analysis of elements connected by relation of "NOT" type.

Claim 8 (Currently amended) The method as recited in claims 1 or 2, wherein said standard elements correlations in the recognized object are expressed in the form of more [then] <u>than</u> single-level structure.

Claim 9 (Original) The method as recited in claims 1 or 2, wherein said standard elements at least partly contain portions of white color.

Claim 10 (Original) The method as recited in claims 1 or 2, wherein said standard elements at least partly contain transparent portions.

Claims 11-12 (Canceled).

Claim 13 (Original) The method as recited in claims 1 or 2, wherein the said standard element is composed of more prime standard elements of at least one type.

Claim 14 (Original) The method as recited in claims 1 or 2, wherein the description of a recognized object as a set of standard elements and spatially parametrical correlation thereof is placed into the special means for storage and search.